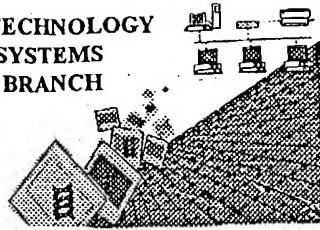


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/817,530
Source: JFWO
Date Processed by STIC: 10/5/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/817,530

DATE: 10/05/2004

TIME: 10:34:02

Input Set : A:\Sequence.List.for.10817530.txt

Output Set: N:\CRF4\10052004\J817530.raw

3 <110> APPLICANT: Braun, Werner
 4 Mathura, Venkatarajan S.
 5 Schein, Catherine H.
 7 <120> TITLE OF INVENTION: PHYSICAL-CHEMICAL PROPERTY BASED SEQUENCE MOTIFS AND METHODS
 8 REGARDING SAME
 10 <130> FILE REFERENCE: 265.00400101
 12 <140> CURRENT APPLICATION NUMBER: 10/817,530
 13 <141> CURRENT FILING DATE: 2004-04-02
 15 <150> PRIOR APPLICATION NUMBER: US 60/460,769
 16 <151> PRIOR FILING DATE: 2003-04-04
 18 <160> NUMBER OF SEQ ID NOS: 5
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 10
 24 <212> TYPE: PRT
 C--> 25 <213> ORGANISM: ARTIFICIAL MEMBER OF DNase-I SUPERFAMILY
 W--> 27 <220> FEATURE:
 W--> 27 <223> OTHER INFORMATION: *move down to <223> line*
 W--> 27 <400> 1
 29 Pro Asp Ile Leu Cys Leu Gln Glu Thr Lys
 30 1 5 10
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 275
 35 <212> TYPE: PRT
 C--> 36 <213> ORGANISM: ARTIFICIAL MEMBER OF DNase-I SUPERFAMILY
 W--> 38 <220> FEATURE:
 W--> 38 <223> OTHER INFORMATION:
 W--> 38 <400> 2
 40 Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr Ser Pro Ser Gly Lys Pro
 41 1 5 10 15
 44 Ala Thr Leu Lys Ile Cys Ser Trp Asn Val Asp Gly Leu Arg Ala Trp
 45 20 25 30
 48 Ile Lys Lys Lys Gly Leu Asp Trp Val Lys Glu Glu Ala Pro Asp Ile
 49 35 40 45
 52 Leu Cys Leu Gln Glu Thr Lys Cys Ser Glu Asn Lys Leu Pro Ala Glu
 53 50 55 60
 56 Leu Gln Glu Leu Pro Gly Leu Ser His Gln Tyr Trp Ser Ala Pro Ser
 57 65 70 75 80
 60 Asp Lys Glu Gly Tyr Ser Gly Val Gly Leu Leu Ser Arg Gln Cys Pro
 61 85 90 95
 64 Leu Lys Val Ser Tyr Gly Ile Gly Asp Glu Glu His Asp Gln Glu Gly
 65 100 105 110
 68 Arg Val Ile Val Ala Glu Phe Asp Ser Phe Val Leu Val Thr Ala Tyr

pp 1-4, b

Does Not Comply
Corrected Diskette Needed

Per 1.823.1 Sequence
Ruler, the explanation
for Artificial Sequence
goes on <223>
line. Please
insert a <220>
above <223>.
Do not insert
response to
<220> - it is
a header only.

See p. 6 for
more explanation.

RAW SEQUENCE LISTING DATE: 10/05/2004
 PATENT APPLICATION: US/10/817,530 TIME: 10:34:02

Input Set : A:\Sequence.List.for.10817530.txt
 Output Set: N:\CRF4\10052004\J817530.raw

69	115	120	125
72	Val Pro Asn Ala Gly Arg Gly Leu Val Arg Leu Glu Tyr Arg Gln Arg		
73	130	135	140
76	Trp Asp Glu Ala Phe Arg Lys Phe Leu Lys Gly Leu Ala Ser Arg Lys		
77	145	150	155
80	Pro Leu Val Leu Cys Gly Asp Leu Asn Val Ala His Glu Glu Ile Asp		
81	165	170	175
84	Leu Arg Asn Pro Lys Gly Asn Lys Lys Asn Ala Gly Phe Thr Pro Gln		
85	180	185	190
88	Glu Arg Gln Gly Phe Gly Glu Leu Leu Gln Ala Val Pro Leu Ala Asp		
89	195	200	205
92	Ser Phe Arg His Leu Tyr Pro Asn Thr Pro Tyr Ala Tyr Thr Phe Trp		
93	210	215	220
96	Thr Tyr Met Met Asn Ala Arg Ser Lys Asn Val Gly Trp Arg Leu Asp		
97	225	230	235
100	Tyr Phe Leu Leu Ser His Ser Leu Leu Pro Ala Leu Cys Asp Ser Lys		
101	245	250	255
104	Ile Arg Ser Lys Ala Leu Gly Ser Asp His Cys Pro Ile Thr Leu Tyr		
105	260	265	270
108	Leu Ala Leu		
109	275		
112	<210> SEQ ID NO: 3		
113	<211> LENGTH: 268		
114	<212> TYPE: PRT		

C--> 115 <213> ORGANISM: ARTIFICIAL MEMBER OF DNase-I SUPERFAMILY

W--> 117 <220> FEATURE:

W--> 117 <223> OTHER INFORMATION: ↴

W--> 117 <400> 3

119	Met Lys Phe Val Ser Phe Asn Ile Asn Gly Leu Arg Ala Arg Pro His		
120	1	5	10
123	Gln Leu Glu Ala Ile Val Glu Lys His Gln Pro Asp Val Ile Gly Leu		
124	20	25	30
127	Gln Glu Thr Lys Val His Asp Asp Met Phe Pro Leu Glu Glu Val Ala		
128	35	40	45
131	Lys Leu Gly Tyr Asn Val Phe Tyr His Gly Gln Lys Gly His Tyr Gly		
132	50	55	60
135	Val Ala Leu Leu Thr Lys Glu Thr Pro Ile Ala Val Arg Arg Gly Phe		
136	65	70	75
139	80		
140	Pro Gly Asp Asp Glu Glu Ala Gln Arg Arg Ile Ile Met Ala Glu Ile		
143	85	90	95
144	Pro Ser Leu Leu Gly Asn Val Thr Val Ile Asn Gly Tyr Phe Pro Gln		
147	100	105	110
148	Gly Glu Ser Arg Asp His Pro Ile Lys Phe Pro Ala Lys Ala Gln Phe		
151	115	120	125
152	Tyr Gln Asn Leu Gln Asn Tyr Leu Glu Thr Glu Leu Lys Arg Asp Asn		
155	130	135	140
156	Pro Val Leu Ile Met Gly Asp Met Asn Ile Ser Pro Thr Asp Leu Asp		
159	145	150	155
159	Ile Gly Ile Gly Glu Asn Arg Lys Arg Trp Leu Arg Thr Gly Lys		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/817,530

DATE: 10/05/2004
TIME: 10:34:02

Input Set : A:\Sequence.List.for.10817530.txt
Output Set: N:\CRF4\10052004\J817530.raw

160	165	170	175
163 Cys Ser Phe Leu Pro Glu Glu Arg Glu Trp Met Asp Arg Leu Met Ser			
164	180	185	190
167 Trp Gly Leu Val Asp Thr Phe Arg His Ala Asn Pro Gln Thr Ala Asp			
168	195	200	205
171 Arg Phe Ser Trp Phe Asp Tyr Arg Ser Lys Gly Phe Asp Asp Asn Arg			
172	210	215	220
175 Gly Leu Arg Ile Asp Leu Leu Ala Ser Gln Pro Leu Ala Glu Cys			
176	225	230	235
179 Cys Val Glu Thr Gly Ile Asp Tyr Glu Ile Arg Ser Met Glu Lys Pro			
180	245	250	255
183 Ser Asp His Ala Pro Val Trp Ala Thr Phe Arg Arg			
184	260	265	
187 <210> SEQ ID NO: 4			
188 <211> LENGTH: 258			
189 <212> TYPE: PRT			
-> 190 <213> ORGANISM: ARTIFICIAL MEMBER OF DNase-I SUPERFAMILY			
-> 192 <220> FEATURE:			
-> 192 <223> OTHER INFORMATION:			
-> 192 <400> 4			
194 Leu Lys Ile Ala Ala Phe Asn Ile Arg Thr Phe Gly Glu Thr Lys Met			
195 1	5	10	15
198 Ser Asn Ala Thr Leu Ala Ser Tyr Ile Val Arg Ile Val Arg Arg Tyr			
199	20	25	30
202 Asp Ile Val Leu Ile Gln Glu Val Arg Asp Ser His Leu Val Ala Val			
203	35	40	45
206 Gly Lys Leu Leu Asp Tyr Leu Asn Gln Asp Asp Pro Asn Thr Tyr His			
207	50	55	60
210 Tyr Val Val Ser Glu Pro Leu Gly Arg Asn Ser Tyr Lys Glu Arg Tyr			
211	65	70	75
214 Leu Phe Leu Phe Arg Pro Asn Lys Val Ser Val Leu Asp Thr Tyr Gln			
215	85	90	95
218 Tyr Asp Asp Gly Cys Cys Gly Asn Asp Ser Phe Ser Arg Glu Pro Ala			
219	100	105	110
222 Val Val Lys Phe Ser Ser His Ser Thr Lys Val Lys Glu Phe Ala Ile			
223	115	120	125
226 Val Ala Leu His Ser Ala Pro Ser Asp Ala Val Ala Glu Ile Asn Ser			
227	130	135	140
230 Leu Tyr Asp Val Tyr Leu Asp Val Gln Gln Lys Trp His Leu Asn Asp			
231	145	150	155
234 Val Met Leu Met Gly Asp Phe Asn Ala Asp Cys Ser Tyr Val Thr Ser			
235	165	170	175
238 Ser Gln Trp Ser Ser Ile Arg Leu Arg Thr Ser Ser Thr Phe Gln Trp			
239	180	185	190
242 Leu Ile Pro Asp Ser Ala Asp Thr Thr Ala Thr Ser Thr Asn Cys Ala			
243	195	200	205
246 Tyr Asp Arg Ile Val Val Ala Gly Ser Leu Leu Gln Ser Ser Val Val			
247	210	215	220
250 Pro Gly Ser Ala Ala Pro Phe Asp Phe Gln Ala Ala Tyr Gly Leu Ser			

RAW SEQUENCE LISTING

DATE: 10/05/2004

PATENT APPLICATION: US/10/817,530

TIME: 10:34:02

Input Set : A:\Sequence.List.for.10817530.txt
 Output Set: N:\CRF4\10052004\J817530.raw

251	225	230	235	240
254	Asn Glu Met Ala Leu Ala Ile Ser Asp His Tyr Pro Val Glu Val Thr			
255		245	250	255
258	Leu Thr			
262	<210> SEQ ID NO: 5			
263	<211> LENGTH: 336			
264	<212> TYPE: PRT			
C-->	265 <213> ORGANISM: ARTIFICIAL MEMBER OF DNase-I SUPERFAMILY			
W-->	267 <220> FEATURE:			
W-->	267 <223> OTHER INFORMATION:			
W-->	267 <400> 5			
269	Tyr Asp Pro Ile His Glu Tyr Val Asn His Glu Leu Arg Lys Arg Glu			
270	1	5	10	15
273	Asn Glu Phe Ser Glu His Lys Asn Val Lys Ile Phe Val Ala Ser Tyr			
274		20	25	30
277	Asn Leu Asn Gly Cys Ser Ala Thr Thr Lys Leu Glu Asn Trp Leu Phe			
278		35	40	45
281	Pro Glu Asn Thr Pro Leu Ala Asp Ile Tyr Val Val Gly Phe Gln Glu			
282		50	55	60
285	Ile Val Gln Leu Thr Ser Ala Asp Pro Ala Lys Arg Arg Glu Trp Glu			
286	65	70	75	80
289	Ser Cys Val Lys Arg Leu Leu Asn Gly Lys Cys Thr Ser Gly Pro Gly			
290		85	90	95
293	Tyr Val Gln Leu Arg Ser Gly Gln Leu Val Gly Thr Ala Leu Met Ile			
294		100	105	110
297	Phe Cys Lys Glu Ser Cys Leu Pro Ser Ile Lys Asn Val Glu Gly Thr			
298		115	120	125
301	Val Lys Lys Thr Gly Leu Gly Asn Lys Gly Ala Val Ala Ile Arg Phe			
302		130	135	140
305	Asp Tyr Glu Asp Thr Gly Leu Cys Phe Ile Thr Ser His Leu Ala Ala			
306	145	150	155	160
309	Gly Tyr Thr Asn Tyr Asp Glu Arg Asp His Asp Tyr Arg Thr Ile Ala			
310		165	170	175
313	Ser Gly Leu Arg Phe Arg Arg Gly Arg Ser Ile Phe Asn His Asp Tyr			
314		180	185	190
317	Val Val Trp Phe Gly Asp Phe Asn Tyr Arg Ile Ser Leu Thr Tyr Glu			
318		195	200	205
321	Glu Val Val Pro Cys Ile Ala Gln Gly Lys Leu Ser Tyr Leu Phe Glu			
322		210	215	220
325	Tyr Asp Gln Leu Asn Lys Gln Met Leu Thr Gly Lys Val Phe Pro Phe			
326	225	230	235	240
329	Phe Ser Glu Leu Pro Ile Thr Phe Pro Pro Thr Tyr Lys Phe Asp Ile			
330		245	250	255
333	Gly Thr Asp Ile Tyr Asp Thr Ser Asp Lys His Arg Val Pro Ala Trp			
334		260	265	270
337	Thr Asp Arg Ile Leu Tyr Arg Gly Glu Leu Val Pro His Ser Tyr Gln			
338		275	280	285
341	Ser Val Pro Leu Tyr Tyr Ser Asp His Arg Pro Ile Tyr Ala Thr Tyr			
342		290	295	300

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/817,530

DATE: 10/05/2004

TIME: 10:34:02

Input Set : A:\Sequence.List.for.10817530.txt

Output Set: N:\CRF4\10052004\J817530.raw

345 Glu Ala Asn Ile Val Lys Val Asp Arg Glu Lys Lys Lys Ile Leu Phe
346 305 310 315 320
349 Glu Glu Leu Tyr Asn Gln Arg Lys Gln Glu Val Arg Asp Ala Ser Gln
350 325 330 335

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/817,530

DATE: 10/05/2004
TIME: 10:34:03

Err in application | Input Set : A:\Sequence.List.for.10817530.txt
Output Set: N:\CRF4\10052004\J817530.raw

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or "Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:1,2,3,4,5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/817,530

DATE: 10/05/2004

TIME: 10:34:03

Input Set : A:\Sequence.List.for.10817530.txt

Output Set: N:\CRF4\10052004\J817530.raw

L:25 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:27 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:27 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:27
L:36 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:38 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:38 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:38 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:38
L:115 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:117 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:117 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:117
L:190 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:192 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:4, <213>
ORGANISM:Artificial Sequence
L:192 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:4, <213>
ORGANISM:Artificial Sequence
L:192 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:192
L:265 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:267 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:267 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:267 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:267